

CLAIMS

I claim:

- 1 1. A valve system for use in draining fluid from a pool pipe having an outlet adjoining a pool
2 wall aperture, said valve system comprising:
3 a valve assembly attachable to said pool pipe and having a closed state for occluding the
4 flow of pool water into said pool pipe, and having an open state for permitting the flow of pool
5 pipe fluid out of said pool pipe, said valve assembly having a valve outlet, and;
6 an adaptor having a flow channel adjoining said valve outlet.
- 1 2. The valve system of claim 1 wherein said adaptor inlet comprises a radially
2 inward extending lip, and said valve assembly comprises a housing having a groove for receiving
3 said inward extending lip.
- 1 3. The valve system of claim 2 wherein said adaptor includes an outlet having a
2 threaded outer surface.
4. The valve system of claim 1 wherein said adaptor comprises a flow channel includes a
filter within said flow channel.
- 1 5. The valve system of claim 1 wherein said valve assembly includes:
2 a gate channel, and
3 a valve gate moveable to a first position within said gate channel for occluding fluid flow
4 through said valve assembly and to a second position within said gate channel for permitting fluid
5 flow through said valve assembly.
6. The valve system of claim 1 wherein said adaptor inlet is configured for detachable
connection to said valve assembly outlet.

1 7. A valve system for draining fluid from a pool pipe having a pipe outlet, said valve system
2 comprising:
3 a valve assembly having
4 a valve inlet connectable to said pipe outlet;
5 a flow cavity; and
6 a valve adaptor releasably connectable to said valve assembly and having a flow channel
7 for receiving said fluid from said flow cavity.

8. The valve system of claim 7 wherein said adaptor comprises a housing having a radially inward extending lip, and said valve assembly comprises a housing having a groove for receiving said inward extending lip.

9. The valve assembly of claim 7 wherein said valve assembly comprises a housing comprising forty percent calcium-filled polypropylene, and said valve adaptor comprises a housing comprising rubber.

10. The valve assembly of claim 7 wherein said adaptor comprises a housing including an outlet having a threaded outer surface.

1 11. The valve system of claim 7 wherein said valve assembly includes:
2 a gate channel, and
3 a valve gate moveable to a first position within said gate channel for occluding fluid flow
4 through said valve assembly in said closed state and to a second position within said gate channel
5 for permitting fluid flow through said valve assembly in said closed state.

1 12. The valve system of claim 7 wherein said valve assembly includes:
2 a gate channel;
3 a valve gate moveable to a first position within said gate channel for occluding fluid flow
4 through said valve assembly and to a second position within said gate channel for permitting fluid

5 flow through said valve assembly, and said adaptor comprises a housing having a radially inward
6 extending lip, said valve assembly comprises a housing having a groove for receiving said inward
7 extending lip; and

8 wherein said adaptor includes an outlet having a threaded outer surface.

1 13. An apparatus for use in winterizing a swimming pool pipe having fluid therein, said
2 apparatus comprising:
3 a valve adaptor inlet having attachment means;
4 a valve adaptor outlet having means for processing swimming pool fluid; and
5 a valve adaptor body having a flow channel for receiving fluid from said valve adaptor
6 inlet and for directing fluid flow from said outlet.

1 14. The apparatus of claim 13 further comprising a valve assembly having a gate channel;
2 a valve gate moveable to a first position within said gate channel for occluding fluid flow
3 through said valve assembly, and to a second position within said gate channel for permitting fluid
4 flow through said valve assembly; and
5 wherein said valve adaptor inlet attachment means is connectable to said valve assembly.

15. The apparatus of claim 13 further comprising:
valve means for connection to said valve adaptor and for permitting fluid flow out of said
swimming pool pipe and into said valve adaptor.

1 16. An apparatus for use in winterizing a swimming pool, comprising:
2 a valve assembly having:
3 a gate channel having a first end defined by a gate plate;
4 a valve gate moveable between valve open and valve closed positions within said
5 gate channel; and
6 a valve adaptor, connectable to said valve assembly, having,
7 an outlet, and

8 a flow channel configured for receiving fluid from said gate channel and directing the fluid
9 to said outlet when said gate is in the closed position.

17. The apparatus of claim 16 wherein said valve gate comprises at least one flow aperture.

18. The apparatus of claim 16 wherein said adaptor comprises a housing having a radially inward extending lip, and said valve assembly comprises a housing having a groove for receiving said inward extending lip.

19. The valve assembly of claim 18 wherein said valve assembly comprises a housing comprising forty percent calcium-filled polypropylene, and said valve adaptor comprises a housing comprising rubber.

20. The valve assembly of claim 16 wherein said adaptor outlet comprises a threaded surface.